

Laboratory pH Meters, METTLER TOLEDO

① FiveEasy™ pH Meter

The Entry-Level-device can be used for different applications in many areas, such as in food and beverage industry, in water or environment analysis. The price-performance ratio and a compact design with need for little space characterise these devices.

Technical data:

pH-range: 0.00 to 14.00, resolution: 0.01 pH
 mV-range: -2000 to 2000, resolution: 1 mV
 Temperature range °C: 0.0 to 100.0, resolution: 0.1°C
 Calibration: max. 3 points, 4 pre-defined buffer groups
 Display: LCD
 Power supply: ext. universal power adapter (standard)

Article	Order No.
FiveEasy pH F20-Meter	10 50 06658

Measurement device, electrode holder, user manual, short guide, universal power supply

FiveEasy F20-Standard Kit	10 50 06626
----------------------------------	--------------------

same as FE20 meter plus pH electrode LE438, pH calibration buffer bags pH 4.01, 7.00, 9.21, 10.01

Further accessories, electrodes, calibration solutions, etc. available on request.

② pH/ion meter SevenCompact™

Powerful device for measuring the pH/mV (S210), pH/mV/ion concentration (S220). New: S213 Duo. 2-channel-device for measuring the pH/mV/conductivity! Technical data for conductivity see S230, page XXX.

- 4.3" color display with u-Focus™: switchover of the information on the display
- PIN-protected routine or expert mode, full GxP support
- Full text menu navigation in 10 languages
- ID management: user/specimen/sensor ID, intellig. Sensor Managem. (ISM)
- Calibration with pre-and user-defined buffer groups, calibration timer
- Automatic, manual, or time-controlled limit point detection; limit point criteria are separately
- Measurement of the ion concentration with pre-defined ions (S220)
- Internal memory for measured values for 2,000 data records, data export via USB flash drive
- 2 USB interfaces for PC, connection of a USB scanners or keyboard
- U-Place™: unique electrode holder with absolutely vertical movement
- Control function for a stirrer available as an option

Technical data:

pH-range: -2.0 to 20.00, resolution 0.001 / 0.01 / 0.1
 mV-range: -2000 to 2000 mV, resolution 0.1 / 1
 Ion concentration: 0 to 1000% / 0 to 10000 ppm / 1.0 E-9 to 9.99 E+9 mg/l
 Temperature range °C: -30.0 to 130.0°C, resolution 0.1

Article	Order No.
S210-Basic	10 50 09025

Device, U-Place™ electrode holder, mains adapter, certificate

S210-Kit	10 50 09026
-----------------	--------------------

same as S210-Basic plus electrode LE438, calibration buffer

S220-Basic	10 50 09028
-------------------	--------------------

Device, U-Place™ electrode holder, mains adapter, certificate

S220-Kit	10 50 09029
-----------------	--------------------

same as S220-Basic plus electrode InLab Expert Pro-ISM, cable, calibration buffer

S220-Bio	10 50 09031
-----------------	--------------------

same as S220-Basic plus electrode InLab Routine Pro-ISM, cable, calibration buffer

S213 meter pH/conductivity	10 50 09958
-----------------------------------	--------------------

Device SevenCompact Duo pH/conductivity, electrode holder, protective cover, operating instructions, user manual, declaration of conformity and test certificate

S213 standard	10 50 09959
----------------------	--------------------

as 213 meter, but also with InLab Expert Pro-ISM pH sensor and InLab 731 conductivity sensor, guides to pH and conductivity measurements, 2 buffer sachets for pH 4.01, 7.00, 9.21, 10.00, 2 standard sachets for 1433 µS/cm and 12.88 mS/cm

S213 water	10 50 09980
-------------------	--------------------

as S213-Standard-Kit but with InLab Pure Pro-ISM for pH and InLab 741-ISM for conductivity



①



②



Modular multi parameter measuring device SevenExcellence™

Professional modular instrument for pH/redox potential, conductivity/salinity/TDS and ion concentration/dissolved oxygen (DO) measurements. For equipment or subsequent extension with 1, 2, or 3 measuring modules of any type.

Properties of the SevenExcellence™ basic unit:

- Huge 7 high-resolution display and touch screen with clear buttons for easy operation
- Modularity and flexibility: expandable up to 3 channels
- Universal communication via USB, Ethernet (LAN) and RS-232
- Full text menu guide in 10 languages with Help menu
- Unique OneClick™ operation concept (individually configurable functions/processes)
- Creation and saving of methods
- Utmost safety and GxP support (ID protection, sophisticated user management, limits/alarms, integrated radio timer)
- Intelligent Sensor Management (ISM™)
- Connection of stirrer, automatic sample changer, PC, barcode scanner, keyboard, printer
- Can be completely integrated in LAN networks (for example data storage, printing)
- Memory for up to 20,000 data records (measured values, calibrations, methods)
- U-Place™ electrode holder with absolute vertical movement

Technical data:

pH-measuring range:	-2.000 to 19.999
Resolution:	0.001/0.01/0.1
mV:	-1999 to +1999 /0.1
Temperature:	-5.0 to 130.0°C, resolution 0.1
Conductivity:	0.01 µS/cm to 1000 mS/cm
TDS:	0.1 mg/l to 2000 g/l
Special inhibitors:	0.00 to 2000 MOhm × cm
Salinity:	0.00 to 80.00 ppt
Ion concentration:	9×10^{-9} to $9.99 \times 10^{+7}$, resolution ± 1 Digit
DO/BOD (O ₂):	0,000 to 50 mg/l or ppm
Saturation:	0 to 500%
Air pressure:	500 to 1100 mbar
Temperature:	0 to 50°C

Measuring module pH:

- 1- to 9-point calibration with automatic buffer recognition
- 8 predefined buffer records, 1 buffer record freely definable
- Automatic temperature compensation with Pt1000 sensors or NTC 30 kOhm

Measuring module conductivity:

- Automatic recognition of calibration status
- Description of calculated cell constants/entering of known cell constants
- Selectable reference temperature (20 or 25°C)
- Linear, non-linear temperature compensation or USP/EP mode

Measuring module concentration/pH:

- Like pH measuring module plus:
- 2- to 9-point calibration for determination of concentration
- Storage of calibration data for up to 10 ISE-sensors
- Direct measurement, standard or sample addition/subtraction

Measuring module DO/BOD (dissolved O₂/biol. O₂ demand):

- 2-point calibration, 2 predefined, 1 user-defined standard
- Automatic temperature and air pressure compensation
- Optical (InLab OptiOx) or polarographic sensors (InLab 605)
- Biol. O₂ demand: predefined methods according DIN 38409 and EPA



Article	Order No.
S400-Basic incl. pH module, 2 × blank modules, electrode arm, EasyDirect software, certificate	10 50 06240
S400-Kit same as S400 plus electrode InLab Expert Pro ISM, cable, 3 × 2 buffer bags	10 50 06241
S400-Bio same as S400-Kit, but with glass electrode InLab Routine Pro ISM and cable	10 50 06242
S700-Kit incl. conductivity module, 2 × blank modules, electrode holder, EasyDirect software, certificate, electrode InLab 731 ISM, 4 bags of calibration standard	10 50 06245
S470-Kit same as S470 plus pH electrode InLab Expert Pro ISM, Lf electrode InLab 731 ISM, 12 × calibration buffer/standard	10 50 06253
S470-USP/EP same as S470 plus pH glass electrode InLab Pure Pro ISM, cable, Lf electrode InLab741 ISM, 2 × calibration buffer/standard	10 50 06254
S500-Basic incl. pH/ion module, 2 × blank modules, electrode arm, LabX direct software, certificate	10 50 06248
S475-Basic 1 × pH-, 1 × conductivity module, 1 × pH/ion module, electrode arm, LabX direct software, certificate	10 50 06255
S900-Kit same as S900-Basic plus O ₂ electrode InLab OptiOx	10 50 02986
S479-Kit same as S470-Kit plus DO/BOD module and O ₂ electrode InLab OptiOx	10 50 02988

More versions, electrodes and accessories available on request.

